

## **4333 - MECHANIC II**

### **NATURE OF WORK**

Performs responsible skilled mechanical work at the journeyman level on all types of heavy duty construction and maintenance equipment and automotive equipment (garbage trucks, police, cars, fire rescue units, backhoe, cranes, buses, tankers, pick-up trucks, vans, towtrucks, etc.).

### **ILLUSTRATIVE EXAMPLES OF ESSENTIAL DUTIES**

Performs major and minor motor repair and replacement work, cleaning and replacing spark plugs installing radiator hoses.

Diagnoses, adjusts, repairs and services a wide variety of medium and heavy gasoline and diesel driven bulldozers, graders, front-end loaders, air compressors, pump apparatus and truck hydraulic systems.

Repairs, overhauls and maintains specialized equipment.

Interprets electrical and hydraulic schematics for proper repair of vehicles.

Overhauls, fabricates and services assemblies and accessories such as single and two speed rear axles, multi-speed transmissions, hydraulic compressed air, vacuum and electric controls, systems and components.

Operates various types of shop equipment, machinery, precision instruments, specialized tools and devices such as dynamometers, boring bars, valve refacing and reseating equipment, micrometers, dial gauges, wheel alignment gauges, clutch cover assembly devices, power SIWS, grinders, drill presses and lathes.

Requisitions parts and materials used in the repair of equipment.

Refaces valves and seats, including grinding, assembling and adjustment.

Installs rings and bearings and effects proper adjustments.

Overhauls and repairs carburetors and clutches.

Performs selected repairs and replacement on diesel driven equipment.

Repairs and overhauls brakes, ignition and fuel systems; transmissions, differentials, front and rear assemblies.

Performs diversified electrical work on automotive equipment, such as diagnosing electrical shorts, installing batteries and terminals, repairing and adjusting lights and repairing generators and starters.

Performs related work as required.

### **KNOWLEDGE, SKILLS AND ABILITIES**

Thorough knowledge of the construction, design, repair and adjustment of a wide variety of both conventional and specialized heavy automotive equipment and machinery.

Thorough knowledge of the usual types of automotive tools and equipment, as well as the special tools, gauges, machinery and shop equipment used in the repair, servicing and maintenance of heavy

## **4333 - MECHANIC II**

diesel driven construction or other specialized equipment.

Considerable knowledge of the methods, tools and equipment used in the repair and overhaul of heavy equipment, automotive passenger cars, trucks, construction and maintenance equipment.

Considerable knowledge and skill in the use of shop tools, such as drills, presses, grinders, micrometers, brake relining and drum grinding machines, welding equipment.

Ability to diagnose the more common defects in the motors and bodies of automotive equipment.

Ability to detect by inspection any worn or broken automotive part.

Ability to adapt available tools and repair parts to specific repair problems.

Ability to interpret and work from sketches, diagrams and installation and repair charts.

Ability to follow oral and written instructions accurately.

### **MINIMUM REQUIREMENTS**

Three (3) years full-time experience in major mechanical repairs to automobile or heavy duty automotive equipment. Three (3) or more ASE certifications OR certifications in automotive mechanics from accredited schools may substitute for up to one (1) year experience (1200 classroom hours= one year of experience). Driver's license. Obtain a Class "A" Florida Commercial Driver's License, valid for air brakes, with endorsements "N" and "P", within 90 days of appointment. Shift work including nights, weekends and holidays. Supply own tools.

### **PHYSICAL REQUIREMENTS**

Must have the use of sensory skills in order to effectively communicate and interact with other employees and the public through the use of the telephone and personal contact. Continuous standing, walking, moving, climbing, carrying, bending, kneeling, some crawling, reaching, and handling, sitting, standing, pushing, and pulling. Heavy/strenuous lifting.

### **SUPERVISION RECEIVED**

General and specific assignments are received and work is performed with latitude for the use for independent action. Work is subject to review for conformance to departmental standards.

### **SUPERVISION EXERCISED**

Usually none, but may assign and direct the work of skilled and semi-skilled mechanics and helpers.

Rev. 1/96 (minimum req.)